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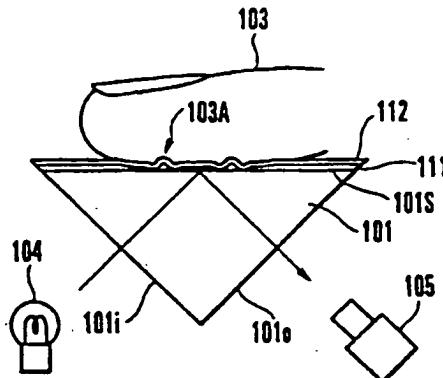
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(54) Fingerprint detecting device and method

(57) In a fingerprint detecting device, the skin surface of a finger is pressed against a transparent body. A light source irradiates incident light from an inside of the transparent body on the skin surface. A thin surface film layer is formed on the surface of the transparent body, on which a three-dimensional pattern of the skin surface is transferred by pressing the finger, to pass the incident light from the light source in an area where the surface film layer contacts the surface of the transparent body. A fluid layer is formed by sealing one of a gas and a liquid between the surface of the transparent body and the surface film layer. The fluid layer is pressed by the surface film layer on which the three-dimensional pattern of the skin surface is transferred and totally reflects the incident light from the light source in an area where the fluid layer contacts the surface of the transparent body. An image detection unit detects an image fingerprint pattern on the basis of the light from the light source, which is reflected by the surface of the transparent body, when the surface film layer comes into contact with the surface of the transparent body in accordance with the three-dimensional pattern of the skin surface. A method for this device is also disclosed.



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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	24 June 1999	Granger, B	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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